



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 15, 2003

PTAS

MATTINGLY, STANGER & MALUR, P.C.
JOHN R. MATTINGLY
1800 DIAGONAL ROAD, SUITE 370
ALEXANDRIA, VA 22314



102481458A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/19/2003

REEL/FRAME: 014194/0234
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TOMIHARA, SEIICHI

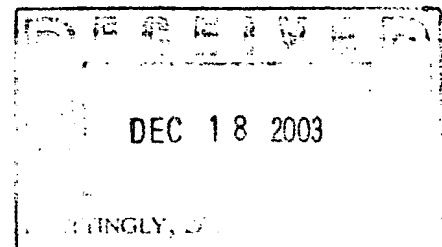
DOC DATE: 08/29/2001

ASSIGNEE:

HITACHI, LTD.
6, KANDA SURUGADAI 4-CHOME CHIYODA-
KU
TOKYO, JAPAN

ASSIGNEE:

HITACHI HOKKAI SEMICONDUCTOR, LTD.
145, AZANAKAJIMA, NANAECCHO, KAMEDA-
GUN
HOKKAIDO, JAPAN



SERIAL NUMBER: 09961368
PATENT NUMBER: 6649448

FILING DATE: 09/25/2001
ISSUE DATE: 11/18/2003

014194/0234 PAGE 2

SHARON BROOKS, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



H-1011

PATENTS ONLY (ref OG 7/28/92)

06-25-2003



To the Honorable Commissioner
Please record the attached origins

102481458

1. Name of Party(ies) conveying an interest: 2. Name and Address of Party(ies) receiving an interest:

Seiichi TOMIHARA

6-19-03

HITACHI, LTD.
6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo, JAPAN

HITACHI HOKKAI SEMICONDUCTOR, LTD.
145, Azanakajima, Nanaecho, Kameda-gun
Hokkaido, JAPAN

3. Description of the interest conveyed: Assignment

4. Application number(s) or patent number(s).

Additional sheet attached? XXX Yes XXX No

If this document is being filed together with a new application,
the execution date of the application is: DATE

- A. Patent Application No.(s)

- B. Patent No.(s)

09/961,368

5. Name and address of party to whom correspondence concerning document should be mailed:

John R. Mattingly
Mattingly, Stanger & Malur, P.C.
1800 Diagonal Road, Suite 370
Alexandria, Virginia 22314

6. Number of applications and patents involved: One

7. Amount of fee enclosed or authorized to be charged: \$40.00

8. The Commissioner is hereby authorized to charge Deposit Account No. 50-1417 if no check is attached.

DO NOT USE THIS SPACE

9. Execution date of attached document: August 29, 2001

10. To the best of my knowledge and belief, I declare under penalty of perjury under the laws of the United States of America that the foregoing information is true and correct and that any attached copy is a true copy of the original document.

06-25-2003 10:01:41 00000000 00000000

06-25-2003

40.00

Shrinath Malur
Name of Person Signing

Signature

Gene W. Stockman
RN 21021

June 19, 2003
Date

Total number of pages being submitted: 2

ASSIGNMENT

(譲 渡 証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD. and Hitachi Hokkai Semiconductor, Ltd., corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 145, Azanakajima, Nanaecho, Kameda-gun, Hokkaido, Japan, respectively, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD. and Hitachi Hokkai Semiconductor, Ltd., their successors and assigns, all my right, title and interest, in and for the United States of America, in and to

A SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire owner ship of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD. and Hitachi Hokkai Semiconductor, Ltd., their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD. and Hitachi Hokkai Semiconductor, Ltd.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date Signed

(署名日)

- | | | |
|-----|--|---------------------------|
| 1) | <u>Seiichi TOMIHARA (Seiichi TOMIHARA)</u> | <u>29 / August / 2001</u> |
| 2) | _____ | _____ |
| 3) | _____ | _____ |
| 4) | _____ | _____ |
| 5) | _____ | _____ |
| 6) | _____ | _____ |
| 7) | _____ | _____ |
| 8) | _____ | _____ |
| 9) | _____ | _____ |
| 10) | _____ | _____ |



UNITED STATES PATENT AND TRADEMARK OFFICE

SM

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/961,368	11/18/2003	6649448	H-1011	5957

7590

10/30/2003

Mattingly, Stanger & Malur, P.C.
Suite 370
1800 Diagonal Road
Alexandria, VA 22314

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

APPLICANT(S):

Naichi Tomihara, Nanae, JAPAN;

